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JUN 28 2002

TECH CENTER 1600/2900

<120> ZmAxig1 Polynucleotides and Methods of Use

<140> US 09/905,558

<150> US 60/217,942

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<212> DNA

<213> Zea mays

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<221> CDS

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				Met Glu Leu		

gag ctc ggg ctc gcg ccg ccg aac ccg cat cag ccg ctg gct gcc gcc 226
Glu Leu Gly Leu Ala Pro Pro Asn Pro His Gln Pro Leu Ala Ala Ala
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gcc gag ttc gtc ggt ctc ctc agc agc tgc gct ggc tgc tgc ggg aac 274
Ala Glu Phe Val Gly Leu Leu Ser Ser Ser Ala Gly Ser Cys Gly Asn
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Lys Arg Val Leu Gly Asp Ala Phe Gly Ala Ala Lys Ala Ala Thr Leu
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Pro Leu Phe Val Cys Glu Asp Gly Asp Gly Gly Gly Gly Asp Arg Asp
55 60 65

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 Arg Asp Gly Val Val Asp His Glu Gln Gln Ser Asn Asn Val Pro Arg
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Ser Cys Gly Gly Gly Tyr Val Lys Val Lys Leu Glu Gly Val Pro Ile	
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Gly Arg Lys Val Asp Val Ser Ile His Gly Ser Tyr Gln Glu Leu Leu	
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Arg Thr Leu Glu Ser Met Phe Pro Ser Gly Asn Gln Gln Asp His Ala	
135 140 145	
gaa gac gag gtg gtg gtc tgc cac gag cgc cgc cgt cgc cat cct tat	658
Glu Asp Glu Val Val Val Ser His Glu Arg Arg Arg Arg His Pro Tyr	
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Val Val Thr Tyr Glu Asp Gly Glu Gly Asp Trp Leu Leu Val Gly Asp	
165 170 175	
gat gtg ccg tgg gag gtc ttt gtc aag tca gtg aag cgg ctc aag ata	754
Asp Val Pro Trp Glu Val Phe Val Lys Ser Val Lys Arg Leu Lys Ile	
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Leu Ala *	
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Ala Thr Leu Pro Leu Phe Val Cys Glu Asp Gly Asp Gly Gly Gly Gly	
50 55 60	
Asp Arg Asp Arg Asp Gly Val Val Asp His Glu Gln Gln Ser Asn Asn	
65 70 75 80	
Val Pro Arg Lys Lys Arg Leu Val Gly Trp Pro Pro Val Lys Cys Ala	

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<212> DNA

<213> Zea mays

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<211> 28

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<213> Zea mays

<400> 6

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<210> 7

<211> 28

<212> DNA

<213> Artificial Sequence

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<223> Zea mays

<400> 7

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<210> 8

<211> 29

<212> DNA

<213> Zea mays

<400> 8

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<210> 9

<211> 29

<212> DNA

<213> Zea mays

<400> 9

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<210> 10

<211> 23

<212> DNA

<213> Zea mays

<400> 10
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 <211> 36
 <212> DNA
 <213> Zea mays
 <220>
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 poly A tail but no cDNA.
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 <210> 12
 <211> 100
 <212> DNA
 <213> Zea mays
 <400> 12
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 cgcgcggggc tgatcaaggg aaagtgatcg gatggagctg 100
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 <211> 52
 <212> DNA
 <213> Zea mays
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 <210> 14
 <211> 22
 <212> DNA
 <213> Zea mays
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 ctaagcactc gtgtgtcgct ac 22
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<212> DNA

<213> Zea mays

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<210> 18

<211> 1173

<212> DNA

<213> Zea mays

<400> 18

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ggcgggccct	gttggtattt	ctcaagtttg	tagccaacgc	actgttcggt	gcgttccata	720
atttaattta	ccatgttgct	ctcgaaaaaa	aaaaaaaaaa	aaa		763

<210> 20
 <211> 622
 <212> DNA
 <213> Zea mays

<220>
 <221> misc_feature
 <222> (1)...(622)
 <223> n = a, t, c, or g

gcatgaataa	tccccaaaac	cctaaagcca	gtgctccttg	caccttgcca	ccggagcttc	60
caaagaagc	agtggcgacc	gacgaagcac	cgccgccaat	gggcaacaac	aacaacacgg	120
aatcggcgac	ggcgacgatg	gtccggggagc	aggaccggct	gatgcccggtg	gccaacgtgt	180
cccgcacat	gcgccaagt	ctgcctccgt	acgccaagat	ctccgacgac	gcccangaag	240
tnatccaaga	attgctnttc	ggaatttcat	cacttncgtc	ctggcgaggc	gaaacgaagc	300
ggtgccacac	cgagcgccgc	aagaccgtca	cctccgaaga	catcgtgtgg	gccatgagcc	360
gcctcggctt	cgacgactac	gtcgcgcccc	tcggcgccct	cctccagcgc	atgcgcgaen	420


```

acagcgaaca cgggggtgaa aacgcggcgg cctgcanggg gtngtggtcn cgccgcgggt 480
cgtctncttg gcgtccctt gccgcaanag atgacaactt gcaccaaacg tctgccgggn 540
tcggacaaa actnttcct gttgcaggaa taccggtccn gggccnttcc cccccaatc 600
caaccatttg gtttccctt gc 622

```

```

<210> 21
<211> 65
<212> PRT
<213> Zea mays

```

```

<220>
<221> VARIANT
<222> (1)...(65)
<223> Xaa = any amino acid

```

```

<400> 21
Arg Glu Gln Asp Xaa Xaa Met Pro Ile Ala Asn Val Ile Arg Ile Met
1          5          10          15
Arg Xaa Xaa Leu Pro Xaa His Ala Lys Ile Ser Asp Asp Ala Lys Glu
20          25          30
Xaa Ile Gln Glu Cys Val Ser Glu Tyr Ile Ser Phe Xaa Thr Xaa Glu
35          40          45
Ala Asn Xaa Arg Cys Xaa Xaa Xaa Xaa Arg Lys Thr Xaa Xaa Xaa Glu
50          55          60
Xaa
65

```